



DECLARATION

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: JTAG MIRRORING CIRCUITRY AND METHODS the specification of which was filed on June 12, 2001 as Application No. 09/880,749.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date
60/211,094	June 12, 2000

Full Name of	Last Name:	First Name:	Middle Name or Initial:	
Inventor 1:	DRAPER	ANDREW	M.	
Residence & Citizenship:	City: Chesham, Bucks	State/Foreign Country: United Kingdom	Country of Citizenship: United Kingdom	
Post Office Address:	Post Office Address: 19 Queens Road	City: Chesham, Bucks	State/Country: United Kingdom	Postal Code:

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1

Andrew M. Draper

Date 18-9-2001

PA 3165120 v1

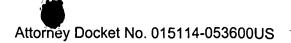
PTO/SB/96 (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
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5 20 R	<u> </u>
<u>s</u>	TATEMENT UNDER 37 CFR 3.73(b)
Applicant atent Owner: Andrew M.	Draper
ACR CALL	5" 14" B. J.
Application No./Patent No.: 09/880,749	
Entitled:JTAG MIRRORING CIRCUI	ITRY AND METHODS
Altera Corporation	, a <u>Corporation</u>
(Name of Assignee)	(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.
states that it is:	
1. the assignee of the entire	right, title, and interest; or
2. an assignee of an undivide	ed part interest
in the patent application/patent identifie	ed above by virtue of either:
	r(s) of the patent application/patent identified above. The assignment was emark Office at Reel, Frame, or for which a copy thereof is
OR .	
B. A chain of title from the inventor(shown below:	s), of the patent application/patent identified above, to the current assignee as
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	d in the United States Patent and Trademark Office at
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Additional documents in the	chain of title are listed on a supplemental sheet.
[NOTE: A separate copy (i.e., the or	cuments in the chain of title are attached. riginal assignment document or a true copy of the original document) rivision in accordance with 37 CFR Part 3, if the assignment is to be TO. See MPEP 302.8]
The undersigned (whose title is supplied	d below) is empowered to sign this statement on behalf of the assignee.
9/21/01	Lukegen
Date	Signeture
	C. Wendell Bergere
	Typed or printed name
	General Counsel and Secretary

Title





(Rev. 03-01) OMB No. 0651-0027 (exp. 5/31/20 PATENTS	ONLY U.S. Department of Commerce U.S. Patent and Trademark Office			
Tab settings				
To the Honorable Commissioner of Patents and Trademarks. 1. Name of conveying party(ies):	Please record the attached original documents or copy thereof 2. Name and address of receiving party(ies)			
	2. Name and address of receiving party(les)			
Andrew M. Draper *	Name: Altera Corporation			
Additional name(s) of conveying parties attached? Yes No.	Internal Address:			
3. Nature of conveyance:	Street Address: 101 Innovation Drive			
	City: San Jose State: CA ZIP: 95134			
☐ Security Agreement ☐ Change of Name				
Other:	Additional names and addresses attached? ☐ Yes ☒ No			
-				
Execution Date: September 9, 2001				
Application number(s) or patent number(s).				
If this document is being filed together with a new application, the	e execution date of the application is:			
A. Patent Application No(s): 09/880,749	B. Patent No(s):			
Additional numbers atta	ched? Yes No			
Name and address of party to whom correspondence concerning document should be mailed:	Total number of applications and patents involved 1			
Name: Steven Cahill TOWNSEND AND TOWNSEND AND CREW LLP Two Embarcadero Center, 8 th Floor	7. Total fee (37 CFR 3.41):\$40.00			
	☐ Enclosed			
San Francisco, California 94111-3834 (415) 576-0200				
	8. Deposit account number: 20-1430			
	(Attach duplicate copy of this page if paying by deposit account)			
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9. Statement and signature.	THIS SPACE			
To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document.				
House Thell				
Steven Cahill Name of Person Signing	September 26, 2001 ignature Date			
Atty. Reg. No. 44,578				
Total number of pages including c	over sheet, attachments and document 2			



Attorney Docket No.: 015114-053600US

Client Reference No.: A620

ASSIGNMENT OF PATENT APPLICATION

SOLE

WHEREAS, Andrew M. Draper, of 19 Queens Road, Chesham, Bucks, United Kingdom; hereinafter referred to as "Assignor," is the inventor of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention:

JTAG MIRRORING CIRCUITRY AND METHODS

Date(s) of execution of Declaration: 18 September 2001

Filing Date:

June 12, 2001

Application No.:

09/880,749; and

WHEREAS, Altera Corporation, a corporation of the state of Delaware, located at, 101 Innovation Drive, San Jose, CA, 95134, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

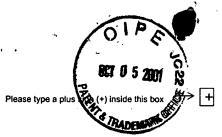
For good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents does assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that Assignor will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignor hereby authorizes and requests Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignor has signed his/her name on the date indicated.

Andrew M. Draper





PTO/S8/81 (02-01)
Approved for use through 10/31/2002. OMB 0651-0035
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09/880,749 **Application Number** June 12, 2001 **Filing Date** Andrew M. Draper **First Named Inventor POWER OF ATTORNEY OR** JTAG Mirroring Circuitry and Methods Title **AUTHORIZATION OF AGENT** 2858 **Group Art Unit** Unassigned **Examiner Name** 15114-053600US **Attorney Docket Number**

I hereby appoint:	•					
Practitioners at Customer Number 26059		-	Place Customer Number Bar Code			
OR Label here ☐ Practitioner(s) named below:						
Name		Registration Number				
						
as my/our attorney(s) or agent(s) to pros	secute the application ide	entified above, and to	transact all			
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I am the:	·		· · · · · · · · · · · · · · · · · · ·			
Applicant/Inventor.						
Assignee of record of the entire interest. See 37 CFR 3.71.						
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).						
SIGNATURE of Applicant or Assignee of Record						
Name C. Wendell Bergere, Gene	me C. Wendell Bergere, General Counsel and Secretary					
Signature (Melgell						
Date 9/21/01						
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.						

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any Comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3165121 v1